

Application No.: 09/757457
Docket No.: QP5031USNA

Page 2

Amendments to Claims

Please amend the claims as follows:

1.-11. (Cancelled)

12. (Currently amended) A filament comprising:

a synthetic melt spun polymer including a plurality of polymer chains having the structural formula:

~~polyamide repeating units and functional amine compounds (R_4);~~
~~polyamide chain extender moieties (R_2), each independently selected from the group consisting of bis-N-acyl bislactam moieties; and~~
~~terminal groups (R_3) comprising at least one of a hydrogen atom and a hydroxyl group;~~
~~the polymer including chains, each independently having a chemical structure:~~



wherein

R_1 independently comprises polyamide repeating units and at least one of diamine and triamine units;

R_2 independently comprises a bis-N-acyl bislactam moiety;

R_3 comprises at least one of a hydrogen atom and a hydroxyl group;

and

wherein y is an integer of 1-14, wherein $[[$; and $]]$

the filament has a formic acid relative viscosity of at least about 30.

13. (Currently amended) The filament of claim 12 wherein R_1 independently comprises the polyamide repeating units (R_4), each independently, are selected from the group consisting of (i) $-\text{CO}(\text{CH}_2)_k\text{CONH}(\text{CH}_2)_m\text{NH}-$, where k and m , each independently, is an integer of 1-12, and n is an integer of 10-140, and (ii) $[\text{NH}(\text{CH}_2)_x\text{CO}_2]_z-$ where x is an integer of 1-12 and z is an integer of 20-280.

14. (Cancelled)

15. (Cancelled) The filament of claim ~~10~~12 wherein the ~~functionalized chain extender bis-N-acyl bislactam moieties~~, each independently, are selected from the group consisting of bis-N-acyl bis-caprolactam moieties.

16. (currently amended) The filament of claim 15, wherein the ~~chain extender bis-N-acyl bis-caprolactam~~ moieties, each independently, are selected from the group consisting of an isophthaloyl bis-caprolactam moiety, an adipoyl bis-caprolactam

Application No.: 09/757457

Docket No.: QP5031USNA

Page 3

~~moeiety moiety~~, (p-phenylene di-terephthalate) N'N bis-caprolactam, and a terphthaloyl bis-caprolactam moiety.

17.-20. (cancelled)